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NOTICE OF ALLOWANCE AND FEE(S) DUE

210

7590

09/03/2008

MERCK AND CO., INC P O BOX 2000 RAHWAY, NJ 07065-0907 EXAMINER

GAMETT, DANIEL C

ART UNIT PAPER NUMBER

1647

DATE MAILED: 09/03/2008

1	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/579,596	05/17/2006	Shun-ichi Harada	21351YP	9402	

TITLE OF INVENTION: CYNOMOLGUS MONKEY DICKKOPF-4, NUCLEOTIDES ENCODING SAME, AND USES THEREOF

l	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/03/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	ders and notification of n a) specifying a new corres	naintenance fees w spondence address;	rill be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Fee((s) Transmittal. Thi ers. Each additional	s certif l paper	icate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, must
MERCK AND P O BOX 2000 RAHWAY, NJ (CO., INC	/2008	I he State addr tran:	reby certify that thi	is Fee(e of Mailing or Transı s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	nission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
			<u> </u>				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/579,596	05/17/2006	NIZEV DIOZZODE 4. NI	Shun-ichi Harada	C CAME AND H	ara m	21351YP	9402
			UCLEOTIDES ENCODIN				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440 •	\$300	\$0 1	\$0 \$1740		12/03/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
·	DANIEL C	1647	435-069100				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	oondence address (or Cha B/122) attached. lication (or "Fee Address)2 or more recent) attach	inge of Correspondence "Indication form led. Use of a Customer	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent atto- listed, no name will be	the names of up to 3 registered patent attorneys gents OR, alternatively, the name of a single firm (having as a member a stered attorney or agent) and the names of up to gistered patent attorneys or agents. If no name is add, no name will be printed.			
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	I' a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assigne assignment. 'and STATE OR C	OUNT	TRY)	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	rporati	on or other private gro	up entity Government
	are submitted: No small entity discount p # of Copies	permitted)	o. Payment of Fee(s): (Plean A check is enclosed. Payment by credit care The Director is hereby overpayment, to Depo	d. Form PTO-2038 vauthorized to char	is atta	iched. required fee(s), any del	
5. Change in Entity Sta	tus (from status indicated as SMALL ENTITY state	*	b. Applicant is no long	ger claiming SMAI	LEN	FITY status See 37 CF	FR 1.27(a)(2)
NOTE: The Issue Fee an	d Publication Fee (if req		d from anyone other than t	•			e assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration N	o		
an application. Confiden submitting the completed this form and/or suggesti	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is est depending upon the indivention Office Chief Information Office	imated to take 12 n ridual case. Any co er. U.S. Patent and '	ninutes mment Traden	s to complete, including s on the amount of time mark Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete attment of Commerce, P.O. for Patents, P.O. Box 1450,

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210 7590 09/03/2008			EXAMINER		
MERCK AND C	CO., INC		GAMETT, DANIEL C		
P O BOX 2000	0.55 0005		ART UNIT	PAPER NUMBER	
RAHWAY, NJ 07	065-0907		1647		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 157 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 157 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No) .	Applicant(s)				
	10/579,596		HARADA ET AL.				
Notice of Allowability	Examiner		Art Unit				
	DANIEL C. GA	METT	1647				
	DANIEL C. GA	VIETI	1047				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) or other appropr IGHTS. This app	CLOSED in this appriate communication blication is subject to	olication. If not include will be mailed in due	ed course. THIS			
1. This communication is responsive to <u>05/16/2008</u> .							
2. The allowed claim(s) is/are <u>1-6 and 10-15</u> .							
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		119(a)-(d) or (f).					
2. Certified copies of the priority documents have		n Application No					
3. Copies of the certified copies of the priority do	cuments have be	en received in this r	—— national stage applica	tion from the			
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				IOTICE OF			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.						
(a) 🔲 including changes required by the Notice of Draftspers	on's Patent Drav	ving Review (PTO-	948) attached				
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).							
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 🗖 1	Notice of Informal Pa	atent Application				
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Interview Summary					
_ , ,		Paper No./Mail Date	e				
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	/. 🔼 l	Examiner's Amendn	nent/Comment				
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material			ent of Reasons for Allo	owance			
/David S Damas/	9. 🔲 '	Other					
/David S Romeo/ Primary Examiner, Art Unit 1647							

Art Unit: 1647

EXAMINER'S AMENDMENT

Claims 1-6 and 10-15 are currently pending and are present for examination.

Applicants' amendments and arguments filed on 05/16/2008 have been fully considered and are deemed to be persuasive to overcome the rejections previously applied. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Patricia Chisholm on August 26, 2008.

The application has been amended as follows:

In the claims—

Claim 11: A method for determining whether an analyte is an antagonist of Dickkopf4 (Dkk-4) binding comprising:

- (a) providing a polypeptide comprising the extracellular domain of a Dkk-4 receptor;
- (b) contacting the polypeptide with a cynomolgus monkey Dkk-4 (cDkk-4) protein comprising the amino acid sequence as set forth in SEQ ID NO:2 and the analyte; and
- (c) determining whether binding of the cDkk-4 to the polypeptide is decreased in the presence of the analyte, wherein a decrease in the binding indicates that the analyte is <u>an antagonist</u> of cDkk-4 <u>binding antagonist</u>.

Page 3

Art Unit: 1647

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel C. Gamett, PhD., whose telephone number is (571)272-1853. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Manjunath N. Rao can be reached on 571 272 0939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DCG Art Unit 1647

/David S Romeo/ Primary Examiner, Art Unit 1647